



# ENERGY TRADE-OFF WORKSHEET

Job Address: \_\_\_\_\_

Name of Subdivision: \_\_\_\_\_ House Type: \_\_\_\_\_

Option(s) included in Envelope: \_\_\_\_\_

PROPOSED					REQUIRED		
U-Values can be found in Tables 1 – 6.							
<b>Walls, Windows and Doors</b>							
Description	Insulation R-Value	U-Value	x Area	= UA	Required U-Value	x Total Area	= UA
Wall type 1			ft <sup>2</sup>		0.149*	ft <sup>2</sup>	
Wall type 2			ft <sup>2</sup>		*0.215 for townhomes ↑		
Window type 1	—		ft <sup>2</sup>				
Window type 2	—		ft <sup>2</sup>				
Window(s) at basement	—		ft <sup>2</sup>				
Door type 1	—		ft <sup>2</sup>				
Door type 2	—		ft <sup>2</sup>				
			ft <sup>2</sup>				
			ft <sup>2</sup>				
Walls: Total Area			ft <sup>2</sup>				
<b>Ceilings, Skylights and Floors Over Outside Air</b>							
Description	Insulation R-Value	U-Value	x Area	= UA	Required U-Value	x Total Area	= UA
Ceilings			ft <sup>2</sup>		0.0331	ft <sup>2</sup>	
Floors over outside air			ft <sup>2</sup>		↑		
Skylight(s)	—		ft <sup>2</sup>				
			ft <sup>2</sup>				
			ft <sup>2</sup>				
Ceilings: Total Area			ft <sup>2</sup>				
<b>Floors and Foundations</b>							
Description	Insulation R-Value	U-Value	x Area	= UA	Required U-Value	x Total Area	= UA
Basement walls*			ft <sup>2</sup>		0.1	ft <sup>2</sup>	
Floors over unheated spaces			ft <sup>2</sup>		0.05	ft <sup>2</sup>	
Crawl space walls (heated crawl space)			ft <sup>2</sup>		0.075	ft <sup>2</sup>	
Total Proposed UA					Total Required UA		

**Total Proposed UA must be less than or equal to the Total Required UA**

Virginia Architect or  
Professional Engineer Seal

Building Designer Name: \_\_\_\_\_ Occupation: \_\_\_\_\_

Address: \_\_\_\_\_ Date: \_\_\_\_\_

Virginia law requires that where an architect or engineer seal is not present, the plans (including these forms) must be signed by the individual (not company) responsible for the design, including his/her occupation and address.